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**UTILITY
PATENT APPLICATION
TRANSMITTAL**
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	9080-016-999	Total Pages	276
First Named Inventor or Application Identifier			
Jonathan A. Usuka, et al.			
Express Mail Label No. EL 340 685 029 US			

APPLICATION ELEMENTS
See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. Fee Transmittal Form
Submit an original, and a duplicate for fee processing
[Total Pages 66]
2. Specification
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R&D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings *(if filed)*
 - Detailed Description of the Invention *(including drawings, if filed)*
 - Claim(s)
 - Abstract of the Disclosure
3. Drawing(s) *(35 USC 113)*
[Total Sheets 15]
4. Oath or Declaration *(unexecuted)*
 - a. Newly executed *(original or copy)*
 - b. Copy from a prior application *(37 CFR 1.63(d))*
(for continuation/divisional with Box 17 completed)
(Note Box 5 below)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33 (b).
5. Incorporation By Reference *(useable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. Microfiche Computer Program *(Appendix)*
7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Copy
 - b. Paper Copy *(identical to computer copy)*
 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. Assignment Papers *(cover sheet & document(s))*
9. 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)
10. English Translation Document *(if applicable)*
11. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
12. Preliminary Amendment
13. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. Applicant claims Small Entity status, see 37 C.F.R. § 1.27
15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. Other: Submission of Compact Disc
2 Compact Discs

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:
 Continuation Divisional Continuation-in-part (CIP) of prior application No: 09/737,918 filed December 15, 2000 .

18. CORRESPONDENCE ADDRESS

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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

The PTO did not receive the following listed item(s). Return post card

PENNIE & EDMONDS LLP

COUNSELLORS AT LAW
3300 Hillview Avenue
Palo Alto, CA. 94304

Date: December 11, 2001

ATTORNEY DOCKET NO. 9080-016-999

Assistant Commissioner for Patents
Box PATENT APPLICATION
Washington, D.C. 20231

Sir:

The following utility patent application is enclosed for filing:

Applicant(s): Jonathan A. Usuka, Andrew Grupe and Gary Allen Executed on: Unexecuted
Peltz

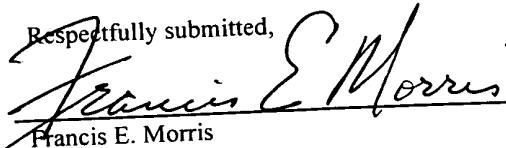
Title of Invention: SYSTEM AND METHOD FOR PREDICTING CHROMOSOMAL REGIONS THAT CONTROL
PHENOTYPIC TRAITS

PATENT APPLICATION FEE VALUE

TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE	FEE
Total Claims	71	-20	51	\$18.00 each	\$ 918.00
Independent	10	-3	7	\$84.00 each	\$ 588.00
				Minimum Fee	\$ 740.00
				Multiple Dependency Fee If Applicable (\$280.00)	\$ 0.00
				Total	\$ 2,246.00
				Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern	
				Total Filing Fee	- \$ 0.00
					\$ 2,246.00

- DO NOT PUBLISH.** I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).
- Priority of application no. filed on in is claimed under 35 U.S.C. § 119.
- The certified copy of the priority application has been filed in application no. filed
- Amend the specification by inserting before the first line the following sentence: This is a continuation-in-part of application no. filed .

Please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed.

Respectfully submitted,

 Francis E. Morris
 PENNIE & EDMONDS LLP

24,615
(Reg. No.)

Enclosure

CA1 - 291978.1

Express Mail No.: EL 340 685 029 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Jonathan Usuka et al.

Serial No.: To be assigned

Filing Date: On even date herewith

For: SYSTEM AND METHOD FOR
PREDICTING CHROMOSOMAL
REGIONS THAT CONTROL
PHENOTYPIC TRAITS

Group Art Unit: To be assigned

Examiner: To be assigned

Attorney Docket No.: 9080-016-999

SUBMISSION OF COMPACT DISC

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In connection with the above-identified application, Applicants submit herewith one compact disc ("Copy 1") and a copy of the compact disc ("Copy 2") pursuant to 37 C.F.R. §§ 1.52(e)(3)(ii). "Copy 1" and "Copy 2" are identical. Applicants respectfully request the entry of the compact disc into the file. The machine format of each compact disc is IBM-PC, and the operating system compatibility is MS-DOS and MS-Windows.

The size of the files contained on the compact disc, their date of creation, their time of creation, and their name are found in the table below. In the table, each row represents a file, the size of the file in bytes is provided in column one, columns two and three respectively represent the date and time of file or directory creation while the fourth column represents the name of the file or directory.

Table 1. Contents of the Computer Program Listing Appendix

Size	Date of Creation	Time of Creation	File Name
32,366	12-10-01	3:35pm	Digidisease.pl
33,987	12-10-01	3:36pm	Display_dev.pm
11,837	12-10-01	3:36pm	Input_output_dev.pm
6,583	12-10-01	3:36pm	Locus_matrix.pl
5,141	12-10-01	3:35pm	Matrix_generator.pl

No fees are believed due in connection with this submission. However, if it is

determined that additional fees are due, please charge them to Pennie & Edmonds LLP
Deposit Account No. 16-1150. A copy of this sheet is enclosed for accounting purposes.

Respectfully submitted,

Respectfully submitted,

Francis E. Morris
PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, California 94304
(650) 493-4935
(Reg. No. 24,615)

Date: December 11, 2001

Enclosures

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CA1-291961.1